

VENDOR DESCRIPTION

Date Revised: 6 APR 04

BRITE Star™ is an advanced laser designator/rangefinder thermal imaging system. The system consists of a thermal imaging sensor, high-resolution TV sensor, laser designator/rangefinder, and Autoboiresight module. Some of the BRITE Star's key features include:

- Microscanned third-generation InSb Focal Plane Array thermal imaging sensor with three optical fields of view
- High-resolution TV sensor with three optical fields of view matched to IR
- 4-axis stabilized 16" Turret FLIR Unit (TFU)
- Highly efficient heat management allows for continuous laser firing
- MIL-STD-810 and MIL-STD-461 qualified
- RTTC Certified laser for PRF and PIM coding



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Business Category: Small Business

EOIRLD

Hardware – Central Electronic Unit (CEU)		Gimbal
RF Frequency: N/A	Operating Temp.: -40°C to +55°C	Height: 19.3 in (490 mm) Weight: 120 lbs (54.4 kg)
Power: 28VDC per MIL-STD-704D, 800 W maximum steady state	Storage Temp.: -55°C to +71°C	Stabilization: Proprietary
Weight: 26 lbs (11.8 kg) max.	Interface: RS-232, RS-422, & MIL-STD 1553	Pointing Accuracy: Proprietary
Dimensions: 12.6 x 10.1 x 7.6 inches 320.5 x 257.1 x 193.2 mm	Bandwidth Required: N/A	Angular Speed: N/A
Internal Volume: 0.56 ft ³	TCDL Compatibility: Yes (1553, RS-422, RS-232, ARINC 429, additional interface capabilities available upon request)	Azimuth Coverage: 360° continuous
Cooling: Ambient air	MTBF: > 850 hrs	Elevation Coverage: +32° - 100°
LOS Stabilization: Proprietary	MTTR: N/A (0.5 hrs to replace any component)	Slew Rate Azimuth: 0-60°/sec.
Auto Video Tracker: Yes	Maintainability: BIT @ O Level to Depot level	Slew Rate Elev: 0-60°/sec.
Operating Altitude: To 20,000' MSL		TLE: Proprietary
Operating Speed: 0 to 200 knots		ATC or ATR or ATI: ½ ATR

Electro-Optical (EO)	Infrared (IR)	Laser Designator/Rangefinder
Type: 1-chip monochrome CCD	Type: MWIR 3-5 InSb / Staring Array	Pulse Characteristics: < 20 nsec
Resolution: 494 Lines (H)	Resolution: 640x480 (microscanned)	Pulse Energy: Confidential
Range: Proprietary	Range: Please contact a FLIR Systems representative for mission-specific information	LRF Range: 20 km max.
Angular Coverage: See FOV	Angular Coverage: See FOV	Angular Coverage: Same as gimbal
Zoom Rate: Fixed	Cooling Method: Closed cycle	Cooling Method: Proprietary
Modes of Operation: Normal & Low-Light	Modes of Operation: Manual Gain, Auto Gain, Enhanced Gain, Inertial Point, Auto Track	Modes of Operation – PRF per AFAL-TR-73-400 and STANAG 3733. Short and long channel PIM per MIS-44477 and TR-CR-RD-MG-98-2
WFOV: 24.9° H x 18.7° V	WFOV: 24.9° H x 18.7° V	Beam Divergence: Confidential
MFOV: 3.4° H x 2.6° V	MFOV: 3.4° H x 2.6° V	Wavelength: 1.06 µm (LD); 1.57 µm (LRF)
NFOV: 0.86° H x 0.65° V	NFOV: 0.86° H x 0.65° V	TLE: Proprietary